

# Specifications — DVS 204 Series Digital Video Scalers

## Video input

Number/signal type .....	1 (RGBHV, RGBS, RGsB) pass-through, RGBS, RGBcvS 1 composite video, S-video, component video (Y, R-Y, B-Y) 1 S-video, 1 SDI (optional, DVS 204D only) 1 composite video
Connectors .....	(1) 15-pin HD female ..... RGB pass-through, RGBS, RGBcvS 3 BNC female ..... component video, S-video, composite video 1 BNC female ..... SDI (DVS 204D, DVS 204D 12 V only) (1) 4-pin mini DIN female ..... S-video 1 BNC female ..... composite video
Nominal level .....	1 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB and for R-Y and B-Y of component video 0.3 Vp-p for C of S-video
Minimum/maximum levels .....	Analog: 0.0 V to 1.0 Vp-p with no offset
Impedance .....	75 ohms
Horizontal frequency .....	NTSC 3.58, NTSC 4.43, PAL, SECAM
Vertical frequency .....	NTSC 3.58, NTSC 4.43, PAL, SECAM
Resolution range .....	NTSC 3.58, NTSC 4.43, PAL, SECAM
Return loss .....	<-25 dB @ 5 MHz
DC offset (max. allowable) .....	1.5 V

## Video processing

Decoder .....	9 bit digital
Digital sampling .....	24 bit, 8 bits per color; 13.5 MHz standard
Colors .....	16.78 million

## Video output

Number/signal type .....	1 scaled or pass-through RGBHV, RGBS, RGsB; or scaled component video (Y, R-Y, B-Y)
Connectors .....	6 female BNC 1 female 15-pin HD
Nominal level .....	1 Vp-p for Y of component video 0.7 Vp-p for RGB and for R-Y and B-Y of component video
Minimum/maximum levels .....	0.0 V to 0.7 Vp-p
Impedance .....	75 ohms
Scaled resolutions .....	640x480 <sup>1,3,4,5,6</sup> , 800x600 <sup>1,3,4,5,6</sup> , 848x480 <sup>1,3,4,5,6</sup> , 852x480 <sup>1,3,4,5,6</sup> , 1024x768 <sup>1,3,4,5,6</sup> , 1280x768 <sup>2,5,6</sup> , 1280x1024 <sup>1,3,4,5,6</sup> , 1360x765 <sup>1,3,4,5,6</sup> , 1365x1024 <sup>1,3,4,5,6</sup> , 1400x1050 <sup>1,3,4,5,6</sup> , HDTV 480p <sup>3,5</sup> , 576p <sup>1,5</sup> , 720p <sup>3,5</sup> , 1080p <sup>3,5</sup> , and 1080i <sup>1,3,5</sup> <sup>1</sup> = at 50 Hz <sup>2</sup> = at 56 Hz <sup>3</sup> = at 60 Hz <sup>4</sup> = at 75 Hz <sup>5</sup> = locked to the current input's vertical refresh rate (Accu-RATE Frame Lock) <sup>6</sup> = True Rate

## Sync

Input type .....	(RGBHV, RGBS, RGsB) pass-through, RGBS, RGBcvS
Output type .....	RGBHV, RGBS, RGsB
Standards .....	NTSC 3.58, NTSC 4.43, PAL, SECAM
Input level .....	0 V to 1.0 Vp-p
Output level .....	TTL: 5.0 Vp-p, unterminated
Input impedance .....	75 ohms
Output impedance .....	75 ohms
Max input voltage .....	5 Vp-p
Max. propagation delay .....	20 ns
Polarity .....	Positive or negative (switch-selectable)

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## Control/remote — decoder/scaler

Serial control port .....	RS-232, 9-pin female D connector
Baud rate and protocol .....	9600 baud, 8 data bits, 1 stop bit, no parity
Serial control pin configurations	1 = input 1 select
	2 = TX
	3 = RX
	4 = input 2 select
	5 = GND
	6 = input 3 select
	7 = input 4 select
	8 = n/a
	9 = hardwired IR
Contact closure .....	9-pin female D connector (same as RS-232 connector)
Contact closure pin configurations	See pins 1, 4, 6, and 7 above.
IR controller module .....	Extron IR 901 (optional)
Program control .....	Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™)

## General

### Power

DVS 204, DVS 204D .....	100 VAC to 240 VAC, 50/60 Hz, 30 watts, internal, autoswitchable
DVS 204/204D 12VDC	
External power supply	100 VAC to 240 VAC, 50/60 Hz, 36 watts, external, autoswitchable; to 12 VDC, 3 A, regulated
Power input requirements	12 VDC, 2 A.

### Temperature/humidity

All models .....	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing
DVS 204, DVS 204D .....	Operating: +32 to +113 °F (0 to +45 °C) / 10% to 90%, noncondensing
DVS 204/204D 12VDC .....	Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Rack mount .....	Yes, with optional rack shelf, part #60-190-01
Enclosure type .....	Metal
Enclosure dimensions .....	1.75" H x 8.75" W x 9.5" D (1U high, half rack wide) 4.4 cm H x 22.2 cm W x 24.1 cm D (Depth excludes connectors and knobs. Width excludes rack ears.)
Product weight .....	3.3 lbs (1.5 kg)
Shipping weight .....	6 lbs (3 kg)
Vibration .....	ISTA 1A in carton (International Safe Transit Association)
Listings .....	UL, CUL
Compliances .....	CE, FCC Class A, VCCI, AS/NZS, ICES
MTBF .....	30,000 hours
Warranty .....	3 years parts and labor

**NOTE** All nominal levels are at  $\pm 10\%$ .

**NOTE** Specifications are subject to change without notice.

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